

Title (en)

Method and device for monitoring external tensioning devices

Title (de)

Verfahren und Vorrichtung zur Überwachung von externen Spanngliedern

Title (fr)

Procédé et dispositif de surveillance d'éléments tendeurs externes

Publication

EP 2295948 A3 20130821 (DE)

Application

EP 10170737 A 20100726

Priority

DE 102009041157 A 20090914

Abstract (en)

[origin: EP2295948A2] The method involves determining natural frequency as relative size and standardizing a perfect condition of a chucking device (2) on a standardized natural frequency at certain time and recognizing damage condition of a chucking device. An independent claim is also included for a device for monitoring of covered chucking devices arranged outside of a concrete cross section of a pre-stressed concrete bridge.

IPC 8 full level

G01M 5/00 (2006.01); **G01L 5/04** (2006.01)

CPC (source: EP)

G01L 5/042 (2013.01); **G01M 5/0008** (2013.01); **G01M 5/0066** (2013.01)

Citation (search report)

- [Y] US 2004073408 A1 20040415 - JANNSEN BERT [DE], et al
- [XY] DE 19531858 A1 19970306 - DEUTSCHE TELEKOM AG [DE]
- [Y] KR 100373517 B1 20030225 - CHANG SUNG PIL
- [A] FR 2138268 A1 19730105 - SARET
- [A] US 2004123665 A1 20040701 - BLODGETT DAVID W [US], et al

Cited by

CN103528719A; CN107101764A; EP3627131A1; US11454559B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2295948 A2 20110316; EP 2295948 A3 20130821; EP 2295948 B1 20171115; DE 102009041157 A1 20110616

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